Att G 3911-28 Pagopsis?
Nt G 3906-2 ?
Buteo sp.?

La Brea
Hawks

Right E 1197 -16 ✓ G 3639 -77 ✓ J 9838 -4 ✓
5993 -16 ✓ 3403 -16 ✓
F 2093 -13 ✓ 3408 -16 ✓
E 3893 -4 ✓
E 2025 -60 ✓

Left E 3685 -4 ✓ ~~G 3636 -81 ✓~~ swainsoni J 9837 -4 ✓

B. swainsoni

Left. E 4146 -4 ✓
fragments 2106 -3 ✓
G 3601 -37 2177 -3 ✓
3483 -37 2907 -3 ✓
3599 -37 2168 -3 ✓
E 2233 -3 1658 -61 ✓
G 3618 -37 2434 -3 ✓
G 3896 -81 2128 -3 ✓
E 2361 -3 3124 -3 ✓
G 3519 -28 2885 -3 ✓
1723 -61 ✓
1644 -61 ✓
2220 -3 ✓
2250 -3 ✓
2240 -3 ✓
2216 -3 ✓
1593 -16 ✓
2223 -3 ✓
2204 -3 ✓
2110 -3 ✓
2114 -3 ✓
1851 -67 ✓
1730 -61 ✓

G 3636 -81 ✓ F 1898 -3 ✓
3500 -37 J 9828 -36 ✓
3522 -? J 9827 -36 ✓
✓ 3638 -81 J 9836 -2 ✓
G 3517 -28 ✓
3607 -37
3533 -36 ✓
3495 -37
3527 -36 ✓
3602 -37
G 3632 -37
3622 -37
3616 -37
3505 -37
3606 -37
3612 -37
3608 -37
3493 -37
3496 -37
3476 -37
3525 -36 ✓
3626 -37
3621 -37
3531 -36 ✓
3507 -37
3528 -36 ✓
3524 -36 ✓
3631 -37
3516 -28 ✓
3535 -67 ✓
3494 -37
3521 -? ✓
3486 -37
3499 -37
3488 -37
3490 -37
3520 -28 ✓
3491 -37
3492 -37
3513 -28 ✓
3481 -37
3506 -37
3487 -37
3485 -37
3512 -37

Rt. E 2244 -3 ✓
2891 -3 ✓
2201 -3 ✓
1588 -16 ✓
✓ 4841 - P.D. ✓
1717 -61 ✓
2442 -3 ✓
1724 -61 ✓
2245 -3 ✓
1750 -61 ✓
2219 -3 ✓
✓ 4546 -77 ✓
1753 -61 ✓
1847 -67 ✓
1656 -61 ✓
2212 -3 ✓
✓ 4519 -61 ✓
2158 -3 ✓
1675 -61 ✓
2437 -3 ✓
1825 -67 ✓
2225 -3 ✓
1824 -67 ✓
1820 -43 ✓
J 9833 -3 ✓
9826 -67 ✓
9829 -36 ✓

G 3600 -37
G 3610 -37
3518 -28 ✓
3510 -37
3475 -37
3634 -37
3509 -37

G 3508 -37
3502 -37
3604 -37
3498 -37
3605 -37
3617 -37
3614 -37
3613 -37
3524 -36 ✓
3603 -37
3503 -37
3493 -37
3628 -37
3609 -37
3629 -37
3620 -37
3532 -36 ✓
3477 -37
3514 -28 ✓
3479 -37
3515 -28 ✓
3501 -37
3511 -37
3619 -37
3489 -37
3480 -37
3471 -37
3625 -37
3637 -37
3615 -37
3627 -37
3623 -37
3484 -37
3630 -37
3529 -36 ✓
3504 -37
3530 -36 ✓
3611 -37
3478 -37

fragment
G 3635 -51 -
E 2687 -3 ✓
G 3482 -37
G 3633 -37
G 3887 -37

La Brea Humeri - Hawth

	a length	b prox	c dist	e wt ectepi condyle	Ba	La	ec	d length deltoid tuberosity to dist end	dc		
G 2402	98.1	S 20.8	S 17.7	S 11.0			L,R 63.3			E2227	109.5
G21979	102.8 S	S 21.3	S,L 17.9	S,B 11.4			L,R 63.8			G2190	110.2
G2203	104.4 S	S 20.0	S 17.1	S 11.0			S,L,R 64.4	S 39.1	S,L 37.4	G1998	99.3
G22.8	97.5	S 20.0	16.6	10.7			S,L,R 64.5	36.2	S,L 37.1	E1816	101.2
G2160	100.7 S	S 20.5	S 17.7	A S 11.2			L,R 63.3			G2167	100.3
G2208	104.7 S	S 20.3	S 17.7	S,A 11.2			L,R 63.3			G2245	107.3
G2172	103.3 S	S 20.1	S 17.5	S 11.0			L,R 62.9			J9207	101.7
E9818	S,B 108.6	S,B, 21.8	S,B,L 18.8	S,B,L 11.7			L,R 62.3	S 42.6	B,L,I 39.5	G2157	103.0
G2208	104.8 S	S 20.3	S 17.7	S 11.3			L,R 63.9	S 41.0	R,B,L,I 39.1	G2198	106.1
G2207	104.9	S 20.3	S 17.5	S,A 11.2			S,L,R 64.0	S 38.7	S,R 37.2	E2387	94.3?
G2216	98.3	19.5	16.7	9.8			B,I, 58.6	S 38.1	all weights 38.6	G2158	102.0
E1631	100.5 S	19.4	S 17.2	S,B 11.4			L, 66.4	S 38.0	all weights 37.8	G2173	113.4
G2166	98.2	19.8	S 17.7	10.4			B,I 58.8	S 36.7	S,R 37.4	E1587	102.0
G2247	107.2 S	[redacted]	S,L 18.1	S,B 11.4			L,R 63.0	S,B 42.6	all weights 39.7	G2164	101.8
E2391	97.5	19.1	16.5	10.1			I,L 61.3	AI 36.2	S,L 37.1	G2000	100.1
G2215	98.2	19.7	16.7	S,B,L 10.1			RL 63.6			G2217	96.4
G2420	S,B,L 110.8	S,B,L 22.6	S,B,L 18.7	S,B,L,R 12.0			S X 64.3	S 41.5	S,L 37.5		
F9087			I, 14.3	I, 18.4			I,B 57.9				
G2165	96.3		16.6	10.4		17.4	62.7	S,I 37.5	I,R,L 39.0		

Hummus La Brea/Hawkins — silvermum?

G2242	106.6
G2201	105.2
G2161	100.1
G2403	106.7
G2185	112.0
G2214	99.1?
E2623	102.1
G2156	103.0
G2212	106.3
E8963	94.5
G2238	107.9
E2052	103.8
G2155	101.3
G2164	98.8
G2240	104.4
E1629	108.5
G2178	115.0
G2221	97.3
G2154	102.2
G2220	99.3

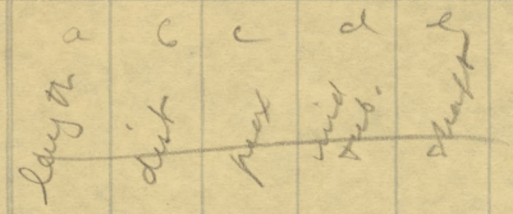
La Brea Humeri

Hrdlička

	a length	b prox diam	c diam	e ht art surface	ba	ca	ec	d	da
62001	120.8	23.7	19.9	12.5			62.8	44.3	36.6

~~Other Small~~ Buteos ~~(except lineatus)~~

to compare with small La Brea form



*melanistic phase of brachyurus?

swainsoni

1. Length OK (a little short)
2. Too broad
3. Sub. to faldorsi on shaft

lineatus

1. Length a little long
2. Breadth a little narrower
3. Tubercle almost same but a little higher

platypterus (only 1 specimen)

1. Length too short
2. Rel. br. to broad
3. Sub. OK

albonotatus (only 1 specimen)

1. Length overlaps, but short at extremes
2. OK apparently tho sh. is slightly broader
3. Sub OK

1	✓1	small Zone-tailed	Buteo albonotatus (abbreviatus)
*2	+2	Large White-tailed	" albicaudatus
	✓3	Very small Short-tailed	" brachyurus
3?	+4	Large Red-	" " borealis
	✓5	*Small Little Black	" fuliginosus
5'	✓6	small Red-shouldered	" lineatus lineatus
	✓7	small Allied	" " elegans
	✓8	Pale red shouldered	" " alleni
6	✓9	small Broad-winged	" platypterus (latissimus)
7	✓10	Swainsons	" swainsoni
8	✓11	small Arner: Rough-leg	" lagopus
+9	+12	Large Ferr. " "	" regalis

Nine species – Three of which are large

Tarsus

La Brea Bateo

numbers removed from orig. list

	a fem	b max	c distr.	d mid neaum dist sh.	e tubo.	ba	ca	da	ea
G3639	69.4	10.7	11.6	4.9 / ~~4.5~~	13.1	15.4	16.7	7.0 / ~~6.5~~	18.9
E3685	69.7	10.0	11.3	4.4 / ~~4.5~~	12.9	14.3	16.2	6.3 / ~~6.1~~	18.5
E593	70.8	10.4	11.9	4.8 / ~~4.2~~	12.8	14.6	16.8	6.7 / ~~6.4~~	18.1
E2025	71.8	10.1	11.4	4.3 / ~~4.0~~	12.6	14.2	16.0	6.0 / ~~5.6~~	17.7
G3403	71.3	10.0	11.3	4.1 ? / ~~3.7~~ ?	12.7	14.0	15.8	5.7 / ~~5.5~~ ?	17.8
E1197	71.5	10.3	11.2	4.4 / ~~4.0~~	14.0	14.4	15.6	6.1 / ~~5.6~~	19.5
G3408	71.8	10.6	11.3	4.4	12.3	14.7	15.7	6.1	17.1
F2093	73.2	11.3	12.4	~~5.3~~	~~12.7~~	15.4	16.9	7.2 / ~~6.1~~	17.3
E3893	73.4	10.7	—	4.9 / ~~4.0~~	13.0	14.7	—	6.6 / ~~5.5~~	17.7
J9837	73.5	10.9	12.3	4.7 / ~~4.4~~	13.1	15.0	16.7	6.4 / ~~6.0~~	17.8
J9838	73.8	11.5	12.7	~~5.2~~ / ~~4.6~~	13.8	15.6	17.2	7.0 / ~~6.2~~	18.7
min.	69.4	10.0	11.2	4.1	12.3	14.0	15.4	6.0	17.1
max	73.8	11.5	12.7	5.2	14.0	15.6	17.2	7.2	19.5
lineatus elegans	72.6	10.5	11.7	4.3	13.3 / ~~13.9~~	14.3 / ~~14.4~~	15.9 / ~~16.1~~	5.7 / ~~5.9~~	17.9 / ~~18.9~~
lineatus elegans	78.3	11.5	13.0	5.0	14.8	14.7	16.4	6.4	18.9
~~min~~ abbrev. shin	68.7	—	~~11.0~~ / 12.8	5.1					
~~max~~	71.5		~~11.9~~ / 13.3	5.2					

	Diat	Prox	tub. dist.	bd shaft				
	a	b	c	d	e	ba	ca	da	ea
lin. max	81.0	13.0	12.0	14.9	5.3	16.6	14.9	18.9	6.2
min.	72.5	11.4	10.6	11.7	4.1	14.5	13.7	15.1	5.3
elegans max	78.3	13.0	11.4	15.0	5.0	16.6	14.5	19.1	6.4
min.	72.6	11.7	10.5	12.8	4.3	15.9	14.0	17.2	5.6
lin. + elegans max	79.6	13.0	11.4	15.0	5.0	16.6	14.5	19.1	6.4
min	72.6	11.4	10.5	11.7	4.1	14.7	13.7	15.1	5.3
fossil max.	73.8	12.7	11.5	14.0	5.3	17.2	15.6	19.5	7.2
min.	69.4	11.2	10.0	12.3	4.1	15.6	14.0	17.1	6.0
sivalensis + antiquus max	72.7	14.0	12.7	17.4	5.4	19.2	17.6	23.9	7.7
min.	65.8	11.0	11.4	12.8	4.9	17.8	16.9	19.4	6.3
platyptenus 1086 7	61.2	10.7	10.2	11.8	4.2	17.5	16.7	19.3	6.8
alboniotatus gratiosatus miller 678	68.2	11.7	10.6	12.4	5.0	17.1	15.5	18.2	7.3
	61.0-71.0								

	a length	b dist	c thick	d sh	x tub	ba	ca	da	xa		
							—	7.1	23.9		
63491	64.4	12.8	—	4.6	15.4	19.9	18.4	7.9	23.4		
63487	64.1	12.2	11.8	5.1	16.3	19.3					
63512	63.5	12.4	11.6	4.7	15.2	19.5	18.3	7.4	23.9	2.4	
E2216	63.3	—	11.3	4.6	14.7	—	17.9	7.2	23.2		
63520	64.8	12.4	11.7	4.6	14.8	19.1	18.0	7.1	22.2		
63528	61.7	12.8	11.4	5.0	13.4	20.7	18.4	8.1	21.7	2.4	24.8
E2204	63.3	12.3	11.4	4.7	15.5	19.4	18.0	7.4	24.5	2.0	17.5
63481	63.6	12.0	11.2	4.6	13.5	18.9	17.6	7.2	21.2		
63488	63.2	12.3	11.3	4.8	16.6						
63492	63.5	12.0	11.9	5.0							
63526	64.3	12.8	11.6	5.0							
				5.2	—	19.3	19.0	7.5	2.8	20.8	
63612	69.4	13.4	13.2	5.8	—	21.3	18.9	7.5	3.0	20.9	
63622	67.2	14.3	12.7								

Silvia Bustos

27

26 23 24

Right	Left
43	45
16	8
2	3
61	56

La Brea

B. swainsoni Tarsi

G3401	67.1
G3614	65.2
G3604	67.4
E2437	67.8
G3617	69.2
E1635	67.4
E4546	67.5
G3571	67.0
E2442	67.0
G3485	67.0
G3610	67.2
G3611	68.9
G3620	68.5
G3609	69.3
E1820	68.6
G3627	69.4
E2244	67.9
G3419	69.1
G3625	67.4
E2891	68.4
	136 N.S.

G3623	69.6
G3630	69.6
G3615	70.2
G3631	70.0
G3629	69.9
G3613	70.2
E1675	71.0
G3600	71.2
G3530	70.1
E2138	69.8
G3429	69.8
E1724	72.1
G3634	72.6
G3605	69.2
	1005 2

La Brea

Buteo swainsoni Tausi

	a length	b proj	c dist	d tub.	ba	ca	da
J 9829	62.0	11.6	12.8	12.3	18.7	20.6	19.8
E 2201 (93?)	64.0	11.7	13.0	13.6	18.3	20.3	21.2
E 4841	64.3	11.3	12.5'	13.1			
E 45'19	64.0	12.6	13.3	13.5'			
G 3477	64.0						
J 9826	61.2	11.5'	12.5'	13.)	18.8	20.4	22.4
G 35'08	62.3						
G 35'03	62.7						
G 3473	63.1						
G 35'02	64.3						
G 350X	64.5						
G 35'09	63.1						
E 175'3	64.7						
G 3480	64.3						
G 35'10	65.0						
G 3479	64.0						
J 9833	64.2						
E 1588	63.1						
G 35'24	65.1						
G 3477	64.9						
	1274.8						

	a length
G 34'75'	65.9
G 35'14	65'5'
E 2212	66.0
G 3484	64.8
G 35'18	66.6
G 3532	65.1
E 1847	66.5'
E 1824	66.5
E 175'0	66.4
G 3603	65.8
G 3498	66.3
E 1825'	66.8
G 3628	66.7
E 2245'	66.9
G 3478	65.5
E 2225'	65.3
G 35'14	66.2
E 2219	66.8
	1189.6
	109

1274.8
1189.6
1360.5
1005.2

4830,1 (67.0
432
510
504
60

20
18
20
14
72